

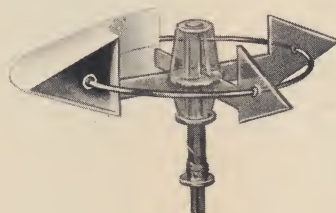
Locus Demonstrations



Z-9119



Z-9059



Z-9425

REVOLVING SHAPES — These are simple models each utilizing a pull string. When held as shown and wound up a bit, plastic shapes spin when cords are pulled.

Z-9119 Paraboloid 16.50

Z-9059 Hyperboloid of one sheet 16.00

TRIANGULAR GENERATOR — To add to the understanding of the shape generated by this model, one quadrant of the generator is outlined in plastic sheeting. Outside diam. 9 1/4".

Z-9425 26.00

ROTATING TRIANGLES DESCRIBE CONE — Height 6".

Z-9420 16.00

PROLATE ELLIPSOID — Diameter 3", height 5 1/2".

Z-9428 16.00

ROTATING CIRCLES DESCRIBE SPHERE — Diameter 5".

Z-9424 11.75

OBLATE ELLIPSOID — Overall height 4" long, dimension 5 3/4".

Z-9427 18.50

HYPERBOLOID — Two sheets. Overall height 3 3/4", length of vanes 4 1/2".

Z-9478 21.00

ROTATION TORUS — Outside diameter 8". (Shown mounted on spindle and tripod base—not included in price.)

Z-9426 23.00

BRASS SPINDLE, NICKEL PLATED — Top carefully ground down to fit models on this page. For use in Tripod Base. 10" long.

Z-9414 6.35

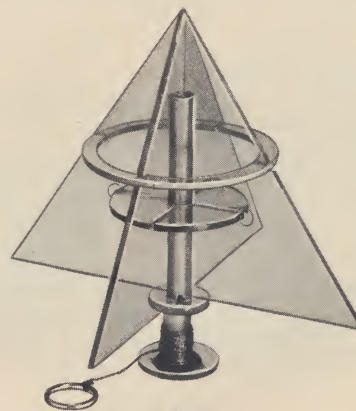
TRIPOD BASE — Heavy metal; rubber feet form 5 1/4" triangle.

Z-9065 7.40

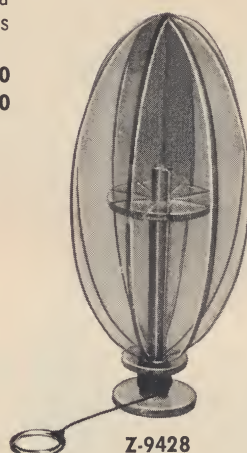
COMPLETE ROTATION SET — Consists of one each of the models shown on this page—Z-9425, Z-9420, Z-9428, Z-9424, Z-9426, Z-9427 and Z-9478—plus Spindle and Base described above.

Z-9505 124.00

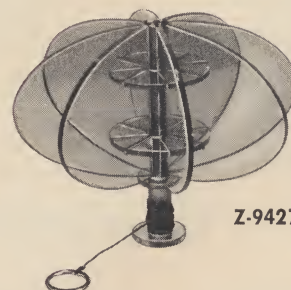
Put motion into locus! A "Solid of Revolution" is formed by revolving a plane figure about a line; for example, a rectangle revolved about one side produces a right, circular cylinder. Nos. Z-9119 and Z-9059 are simple wind-up types, but the other models on this page are designed with pull string and ring, to spin about a spindle mounted in a tripod. All are of attractive colored plastic, and make excellent displays for the mathematics department when not in use for demonstration purposes.



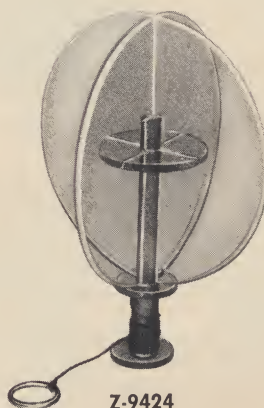
Z-9420



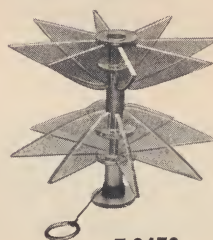
Z-9428



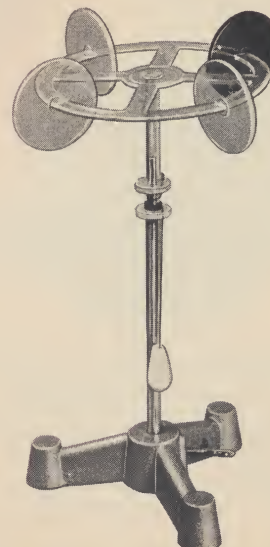
Z-9427



Z-9424



Z-9478



Z-9426

Z-9414

Z-9065

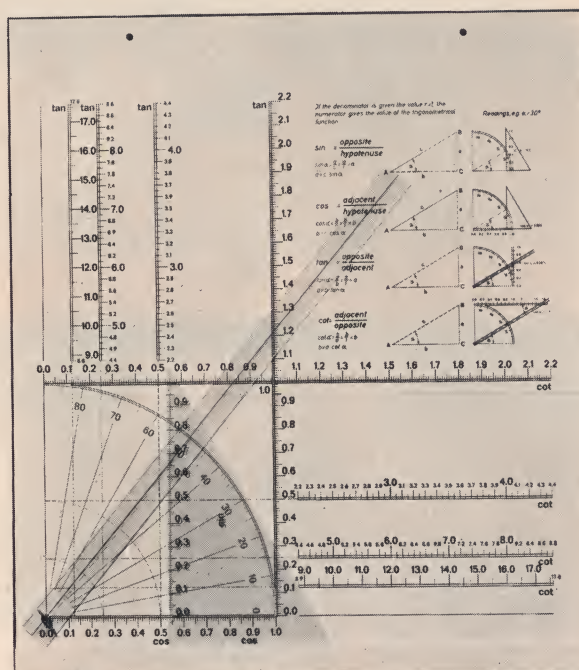
Trigonometric Charts and Devices

TRIGONOMETRIC FUNCTION DEVICE — This unit provides a meaningful introduction to trigonometric functions, demonstrating the fact that line segments have lengths which may be interpreted as values of the functions. The accuracy of the equipment is such that students experimenting with the unit discover the correlation between geometric tables and the trigonometric functions, and the variation in each function. Values of the four functions may be read directly from the device and students may prepare their own table of functions.

Sine and cosine are read between zero and 90° using the clear plastic (30°, 60°) right triangle which slides along a track at the bottom of the board. Drawings in the upper right hand corner of the 30" square board indicate where to locate values for sine and cosine functions.

Tangent is read between zero and 66° by placement of the angle indicator. This 30" radius is adjustable to any angle in the first quadrant. Tangent is read on the vertical center scale. Cotangent is read between 90° and 24°, also using the angle indicator and with a reading of the horizontal center scale. Three additional vertical tangent scales refer to the ranges: 60° to 77°; 77° to 83.5°; 83° to 86°. These scales permit reading the tangent of large angles since they refer to the smaller unit circles shown within the main circle. Cotangent for small angles is found in the same manner by using the additional horizontal scales.

Z-9678 **65.00**



Z-9678

LOG AND TRIG CHARTS

LOGARITHM CHART — 60" x 42", yellow numerals on heavy green slate cloth, mounted on spring rollers.

Z-8840 **28.50**

TRIG CHART — Features 10 minute intervals in values of sines, cosines, tangents and cotangents.

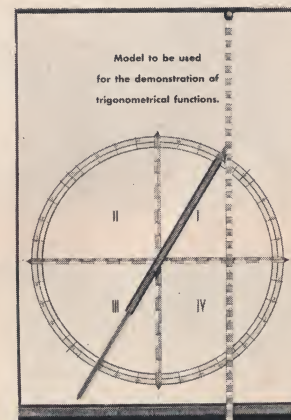
Z-8841 **28.50**

REVERSIBLE LOG-TRIG CHART — Combination of above.

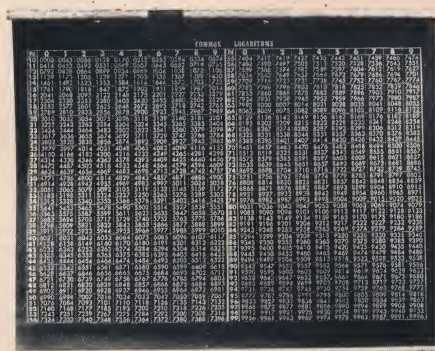
Z-8842 **34.50**

TRIG DEMONSTRATOR, UNIT CIRCLE — Movable radius indicates line functions; calibrated bar slides on top rail. Engraved 18" circle on 20" x 28" wood-backed plastic panel. Instruction book included with each demonstrator.

Z-9677 **49.50**



Z-9677



Z-8842

RIGHT TRIANGLE WITH REVOLVING FACE PIECE — Classroom demonstrator has all solutions of the right triangle. Verbal description of problem and trigonometric formula are given in window at top of face piece. Problem is depicted visually through appropriate holes in face piece, known quantities in black, unknowns in red. Masonite, washable surface: 38" x 46".

Z-8810 (J-A-G-T) **25.00**

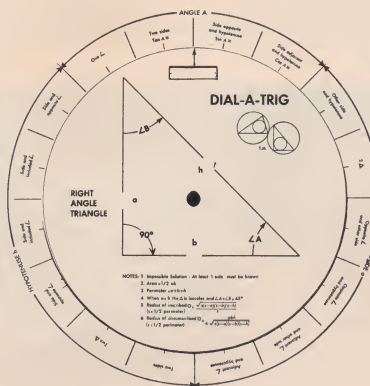
OBLIQUE TRIANGLE CHART — Similar to Z-8810 but has solutions of the oblique triangle.

Z-8811 (G-T) **25.00**

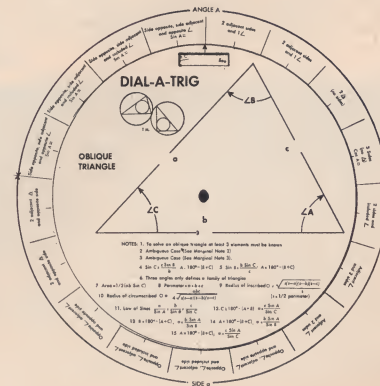
NOTEBOOK VERSION OF BOTH CHARTS — Charts Z-8810 and Z-8811 have been reduced for two sides of 7 3/4" x 9" bristol board, punched for 3 ring binder. Each side has revolving face piece.

Z-8812 (J-A-G-T) **1.35**

Per Dozen **13.20**



Z-8810



Z-8811